

IFWO

RAW SEQUENCE LISTING DATE: 07/22/2004 PATENT APPLICATION: US/10/764,985 TIME: 08:52:33

```
4 <110 > APPLICANT: Terajima, Masanori
5
        Cruz, John
        Ennis, Francis A.
6
 8 <120> TITLE OF INVENTION: Identification of Gene Sequences and
         Proteins Involved in Vaccinia Virus Dominant T Cell Epitopes
12 <130> FILE REFERENCE: 0746.2003-001
14 <140> CURRENT APPLICATION NUMBER: US 10/764,985
15 <141> CURRENT FILING DATE: 2004-01-26
17 <150> PRIOR APPLICATION NUMBER: US 60/442,846
18 <151> PRIOR FILING DATE: 2003-01-24
20 <160> NUMBER OF SEQ ID NOS: 33
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 9
26 <212> TYPE: PRT
27 <213> ORGANISM: Unknown
29 <220> FEATURE:
30 <223> OTHER INFORMATION: 74A peptide of MVA
32 <400> SEQUENCE: 1
33 Cys Leu Thr Glu Tyr Ile Leu Trp Val
34 1
                    5
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 9
39 <212> TYPE: PRT
40 <213> ORGANISM: Unknown
42 <220> FEATURE:
43 <223> OTHER INFORMATION: 165 peptide of MVA
45 <400> SEQUENCE: 2
46 Lys Val Asp Asp Thr Phe Tyr Tyr Val
47 1
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 9
52 <212> TYPE: PRT
53 <213> ORGANISM: Unknown
55 <220> FEATURE:
56 <223> OTHER INFORMATION: 165 peptide of Monkeypox (Zaire-96-I-16)
58 <400> SEQUENCE: 3
59 Lys Val Asp Tyr Thr Leu Tyr Tyr Val
60 1
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 9
65 <212> TYPE: PRT
66 <213> ORGANISM: Unknown
```

RAW SEQUENCE LISTING DATE: 07/22/2004 PATENT APPLICATION: US/10/764,985 TIME: 08:52:33

```
68 <220> FEATURE:
69 <223> OTHER INFORMATION: Possible mutant of 74A peptide
71 <400> SEQUENCE: 4
72 Ile Leu Thr Glu Tyr Ile Leu Trp Val
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 9
78 <212> TYPE: PRT
79 <213> ORGANISM: Unknown
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Possible mutant of 74A peptide
84 <400> SEQUENCE: 5
85 Leu Leu Thr Glu Tyr Ile Leu Trp Val
86 1
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 9
91 <212> TYPE: PRT
92 <213> ORGANISM: Unknown
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Possible mutant of 74A peptide
97 <400> SEQUENCE: 6
98 Phe Leu Thr Glu Tyr Ile Leu Trp Val
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 9
104 <212> TYPE: PRT
105 <213> ORGANISM: Unknown
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Possible mutant of 74A peptide
110 <400> SEQUENCE: 7
111 Cys Leu Ala Glu Tyr Ile Leu Trp Val
112 1
                     5
115 <210> SEQ ID NO: 8
116 <211> LENGTH: 9
117 <212> TYPE: PRT
118 <213> ORGANISM: Unknown
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Possible mutant of 74A peptide
123 <400> SEQUENCE: 8
124 Cys Leu Tyr Glu Tyr Ile Leu Trp Val
125 1
128 <210> SEQ ID NO: 9
129 <211> LENGTH: 9
130 <212> TYPE: PRT
131 <213> ORGANISM: Unknown
133 <220> FEATURE:
134 <223 > OTHER INFORMATION: Possible mutant of 74A peptide
136 <400> SEQUENCE: 9
137 Cys Leu Phe Glu Tyr Ile Leu Trp Val
```

RAW SEQUENCE LISTING DATE: 07/22/2004 PATENT APPLICATION: US/10/764,985 TIME: 08:52:33

```
138 1
141 <210> SEQ ID NO: 10
142 <211> LENGTH: 9
143 <212> TYPE: PRT
144 <213> ORGANISM: Unknown
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Possible mutant of 74A peptide
149 <400> SEQUENCE: 10
150 Cys Leu Thr Glu Ile Ile Leu Trp Val
151 1
                     5
154 <210> SEQ ID NO: 11
155 <211> LENGTH: 9
156 <212> TYPE: PRT
157 <213> ORGANISM: Unknown
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Possible mutant of 74A peptide
162 <400> SEQUENCE: 11
163 Cys Leu Thr Glu Lys Ile Leu Trp Val
164 1
167 <210> SEQ ID NO: 12
168 <211> LENGTH: 9
169 <212> TYPE: PRT
170 <213> ORGANISM: Unknown
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Possible mutant of 74A peptide
175 <400> SEQUENCE: 12
176 Cys Leu Thr Glu Asn Ile Leu Trp Val
177 1
180 <210> SEQ ID NO: 13
181 <211> LENGTH: 9
182 <212> TYPE: PRT
183 <213> ORGANISM: Unknown
185 <220> FEATURE:
186 <223> OTHER INFORMATION: Possible mutant of 74A peptide
188 <400> SEQUENCE: 13
189 Cys Leu Thr Glu Tyr Ile Ala Trp Val
193 <210> SEQ ID NO: 14
194 <211> LENGTH: 9
195 <212> TYPE: PRT
196 <213> ORGANISM: Unknown
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Possible mutant of 74A peptide
201 <400> SEQUENCE: 14
202 Cys Leu Thr Glu Tyr Ile Tyr Trp Val
203 1
                     5
206 <210> SEQ ID NO: 15
207 <211> LENGTH: 9
208 <212> TYPE: PRT
```

RAW SEQUENCE LISTING

DATE: 07/22/2004 TIME: 08:52:33

PATENT APPLICATION: US/10/764,985

Input Set : A:\0746.2003-001USSEQLIST.TXT
Output Set: N:\CRF4\07222004\J764985.raw

209 <213> ORGANISM: Unknown 211 <220> FEATURE: 212 <223> OTHER INFORMATION: Possible mutant of 74A peptide 214 <400> SEQUENCE: 15 215 Cys Leu Thr Glu Tyr Ile His Trp Val 216 1 5 219 <210> SEQ ID NO: 16 220 <211> LENGTH: 9 221 <212> TYPE: PRT 222 <213> ORGANISM: Unknown 224 <220> FEATURE: 225 <223 > OTHER INFORMATION: Possible mutant of 74A peptide 227 <400> SEQUENCE: 16 228 Ile Leu Ala Glu Tyr Ile Leu Trp Val 229 1 5 232 <210> SEQ ID NO: 17 233 <211> LENGTH: 9 234 <212> TYPE: PRT 235 <213> ORGANISM: Unknown 237 <220> FEATURE: 238 <223> OTHER INFORMATION: Possible mutant of 74A peptide 240 <400> SEQUENCE: 17 241 Ile Leu Ala Glu Ile Ile Leu Trp Val 242 1 245 <210> SEQ ID NO: 18 246 <211> LENGTH: 9 247 <212> TYPE: PRT 248 <213> ORGANISM: Unknown 250 <220> FEATURE: 251 <223> OTHER INFORMATION: Possible mutant of 74A peptide 253 <400> SEQUENCE: 18 254 Ile Leu Ala Glu Ile Ile Ala Trp Val 255 1 5 258 <210> SEQ ID NO: 19 259 <211> LENGTH: 9 260 <212> TYPE: PRT 261 <213> ORGANISM: Unknown 263 <220> FEATURE: 264 <223> OTHER INFORMATION: Possible mutant of 165 peptide 266 <400> SEQUENCE: 19 267 Ile Val Asp Asp Thr Phe Tyr Tyr Val 268 1 271 <210> SEQ ID NO: 20 272 <211> LENGTH: 9 273 <212> TYPE: PRT 274 <213> ORGANISM: Unknown 276 <220> FEATURE: 277 <223> OTHER INFORMATION: Possible mutant of 165 peptide 279 <400> SEQUENCE: 20

RAW SEQUENCE LISTING DATE: 07/22/2004 PATENT APPLICATION: US/10/764,985 TIME: 08:52:33

```
280 Leu Val Asp Asp Thr Phe Tyr Tyr Val
281 1
284 <210> SEQ ID NO: 21
285 <211> LENGTH: 9
286 <212> TYPE: PRT
287 <213> ORGANISM: Unknown
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Possible mutant of 165 peptide
292 <400> SEQUENCE: 21
293 Phe Val Asp Asp Thr Phe Tyr Tyr Val
294 1
297 <210> SEQ ID NO: 22
298 <211> LENGTH: 9
299 <212> TYPE: PRT
300 <213> ORGANISM: Unknown
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Possible mutant of 165 peptide
305 <400> SEQUENCE: 22
306 Lys Val Ala Asp Thr Phe Tyr Tyr Val
307 1
310 <210> SEQ ID NO: 23
311 <211> LENGTH: 9
312 <212> TYPE: PRT
313 <213> ORGANISM: Unknown
315 <220> FEATURE:
316 <223> OTHER INFORMATION: Possible mutant of 165 peptide
318 <400> SEQUENCE: 23
319 Lys Val Tyr Asp Thr Phe Tyr Tyr Val
                    5
323 <210> SEQ ID NO: 24
324 <211> LENGTH: 9
325 <212> TYPE: PRT
326 <213> ORGANISM: Unknown
328 <220> FEATURE:
329 <223> OTHER INFORMATION: Possible mutant of 165 peptide
331 <400> SEQUENCE: 24
332 Lys Val Phe Asp Thr Phe Tyr Tyr Val
333 1
336 <210> SEQ ID NO: 25
337 <211> LENGTH: 9
338 <212> TYPE: PRT
339 <213> ORGANISM: Unknown
341 <220> FEATURE:
342 <223> OTHER INFORMATION: Possible mutant of 165 peptide
344 <400> SEQUENCE: 25
345 Lys Val Asp Asp Ile Phe Tyr Tyr Val
346 1
349 <210> SEQ ID NO: 26
350 <211> LENGTH: 9
```

VERIFICATION SUMMARY

DATE: 07/22/2004 TIME: 08:52:34

PATENT APPLICATION: US/10/764,985